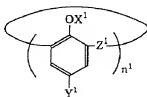


ABSTRACT

Provided is a metal complex which can be used in applications, such as catalysts for various chemical reactions, information/electronic materials, and the like, and which especially has a peroxidase-like activity and a high activity in phosphodiester hydrolysis. Also, provided is a novel method for analyzing a hydrogen peroxide using a metal complex having a peroxidase-like activity. A cyclic phenol sulfide metal complex is produced by bringing a cyclic phenol sulfide metal complex represented by the formula with at least one selected from metals of the Groups 8, 1A to 7A, 1B and 3B, and is used as a catalyst for oxidation by hydrogen peroxide or a catalyst for hydrolysis of phosphodiester. Furthermore, hydrogen peroxide is analyzed using the catalyst for hydrolysis.



(wherein X¹ represents a hydrogen atom, a hydrocarbon group, a carboxyalkyl group, or a carbamoylalkyl group; Y¹ represents a hydrogen atom, a hydrocarbon group, a

halogenated hydrocarbon group, a halogen atom, an acyl group, a hydroxyl group, a carboxyl group, an amido group, an amino group, a nitro group, a cyano group, a chlorosulfonic acid group, an alkoxysulfonyloxy group, or a sulfonic acid group; Z^1 represents Sm^1 , SO , or SO_2 ; m^1 is an integer of from 1 to 7; n^1 is an integer of from 4 to 8).